

m1053/0081

cc: Lynn

Task: 5094

Progressive Contracting, Inc.

Fort Pierce Gypsum Mining

Rec'd by e
mail 9/25/2012

Phase 2 Reclamation Rule R647-4-110

Phase 2 Surety Calculations R647-4-113

Phasing Plan

Legal description

Rule R647-4-110
Reclamation Plan

This section applies to the Phase 2 approximately 17.84 acres

110.1 Current land use and post mining land use:

- A. Current: The property is In its Natural State with some off road trails.
- B. Post: Return the property to its natural state thru reclamation

110.2 Reclamation of Roads, Highwalls, Slopes, Leach Pads, Dumps

- A. Leach Pads – N/A, there are no leach pads
- B. Roads – All Roads will be obliterated scarified and reclaimed .
- C. Highwalls – there will be no high walls see grading plan
- D. Slope Reclamation – all slopes upon completion re-graded to a maximum of 3H to 1V. All slopes will have topsoil replaced and will be drill seeded in the fall, with the attached seed mix and application rates. The majority of the site is a very passive 5% across the site from the north west side flowing toward the south east side.
- E. Dumps/Tailings – N/A there are no dump sites or tailing sites
- F. Shafts – N/A there are no shafts on site
- G. Drill Holes – see section R647-4-108

110.3 Surface Facilities Left

No surface facilities will be left.

110.4 Treatment, location, and disposition of deleterious materials.

No deleterious materials will be generated on site

110.5 Revegetation Planting Program and Top Soil Redistribution

A. Soil Placement, top soil will be stockpiled on site and will be placed across the entire site. The area to be revegetated is approximately 777,084 square feet (17.84 acres) including all the passive 3H to 1V slopes (North West Corner) . Top soil will be placed with the use of equipment. The depth of the soil will be approximately 6" and the quantity of top soil will be approximately 14,390.44 cy. We are currently producing amended top soil for commercial sales. This will be the source of material to be used.

B. Seed Bed Preparation. Seed bed will be scarified to a depth of 6" amended topsoil will then be placed to a depth of 6" graded to insure drainage . The seeding process will be done by Drill seeding. Seed mixture and application rates will be described below

C. Seed Mixture.

Fall (Early September)

Species	Application rate PLS Lbs per Acre
Wheat grass, Siberian	6.43
Wheat grass, Hycrest	5.89
Forage Kochia	1.38
Four Wing, Salt brush	1.22
Drop seed, Sand	1.38
Annual Rye	8.76

D. Drill seeded , cross sectioned 2 ways

E. Fertilization. Fertilizer will be applied approximately 4 weeks after germination at a rate if 20 lbs per acre 21-8-16

F. Other Revegetation Procedures - N/A

G. Drill Holes see R647-4-108

Rule R647-4-112 Variance - N/A

Rule 647-4-113- Surety

This is for Phase 2 approximately 17.84 Acres. The entire parcel will be reclaimed to its pre existing conditions

1. Clean up removal of structures. No structures will be constructed on this site.

2. Backfilling, Grading and Contouring. This is happen upon completion of the mining operation .Grading and re contouring with reclamation estimated time to complete 60 hours .

D8 Dozer - \$160/hour

Water Truck - \$60/hour

Loader - \$90/hour

Paddle wheel scraper-125/hour

Blade -105/hour

Total \$ 540 per Hour X 60 Hours = \$ 32,000.00

3. Soil Material; top soil is stockpiled. We are currently manufacturing top soil for sale which we are amending with material available from the city and county's recycling programs. This will be the same material used for reclamation. We anticipate 14,390.44 cy for the reclamation of the site at \$ 2.00 per cubic yard (\$28,780.88) to amend the top soil.

4. Revegetation; (see section 110.5) 17.84 acres @ \$ 1,200.00 Per Acre = \$21,408.00

5. Safety Gates, Berms, Barriers, Signs. Cost associated with fencing 1600 lf @ 6.95= \$11,120, Gates 4 16' Gates @800 each= \$3,200.00, Sign package is \$1,200 for a total cost of \$ 15,520.00

6. Demolition and Removal or Burial of Facilities Structures, N/A all structures will Remain.

7,8,9 see item 2. Cost associated with these items are incidental to Item #2

10. Drainage, The SWPPP has Post BMP to be installed.

8" Straw Wattles 900 lf @ \$8.00 PER lf = \$ 7,200.00

Rock Check Dams 12 each @\$300.00 = \$ 3,600.00

Silt fence permanently attached to fence down hill side 900 liner feet

@ \$2.30=\$2,070

Total Post construction SWPPP = \$12,870.00

11. Mulching see Item 4

12. Site Clean up incidental & included in item 2

13. Hazardous material N/A No hazardous material will be kept or generated on site

14. Mobilization , Our base of operation is located adjacent to this site N/A mob cost

15. Supervision during reclamation 80 Hours @\$29.26 = \$ 2,343.20

Summary of surety calculations

Earth work grading contouring \$32,400.00

Top soil placement \$ 28,780.88

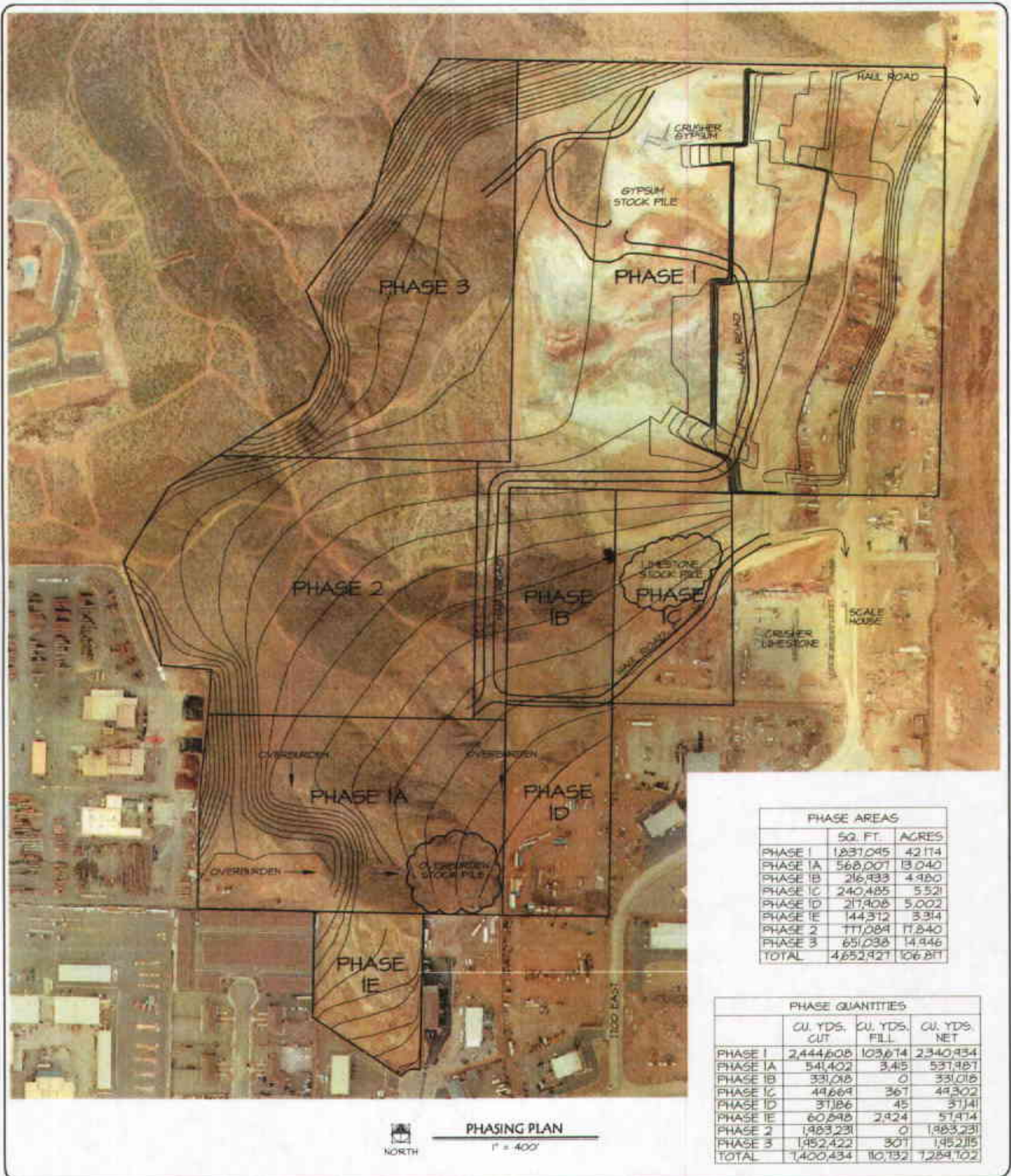
Revegetation /seeding \$21,408.00

Safety gates berms fencing \$15,520.00

Post SWPPP \$12,870.00

Supervision \$ 2,343.20

Total \$ 113,322.08 or / 17.84 acres \$6,352.14 , per acre



Phase 2

LEGAL DESCRIPTION

Beginning at a point South $01^{\circ}11'18''$ West 1,237.59 feet along the East Section Line from the Northeast Corner of Section 17, Township 43 South, Range 15 West, Salt Lake Base and Meridian; thence continuing along said East Section Line south $01^{\circ}11'18''$ west 796.79 feet; thence North $88^{\circ}51'59''$ West 924.76 feet; thence North $04^{\circ}46'07''$ East 138.06 feet; thence North $85^{\circ}18'39''$ East 156.57 feet; thence North $20^{\circ}27'24''$ West 340.90 feet; thence North $31^{\circ}55'11''$ East 271.46 feet; thence North $58^{\circ}12'54''$ East 182.32 feet; thence South $88^{\circ}51'59''$ West 906.49 feet to the point of beginning. Contains 19.673 acres.

